



PTO-1082

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Pr:

01/10-00

Case Docket No. ST9-99-111

0055.0013

January 6, 2000

Express Mail Label No. EL399539220US

Transmitted herewith for filing is the patent application of

Inventor(s): L.E. Nakamura  
For: METHOD, SYSTEM, AND PROGRAM FOR PRESENTING DATA IN A LIMITED DISPLAY AREA

Enclosed are:

- ☒ 4 No. of Sheets of Drawings Sheet(s) of drawings ( ☒ informal) + 0 extra copies;  
16 pages of Application; 10 pages of specification, 1 page of abstract  
☒ An assignment of the invention to International Business Machines Corporation. ( ☐ Will follow.)  
An associate power of attorney.  
☒ A verified statement to establish small entity status under 37 CFR 1.9 and 1.27.  
Declaration and Power of Attorney. ( ☐ Will follow.)  
Certified copy of Patent Application No. filed from which priority is claimed under 35 U.S.C. §119.  
IDS enclosed. ☐ with references.

jcs42 U.S. PTO  
09/478974  
01/06/00

CALCULATION OF FEES							
ITEM		NO. OF CLAIMS FILED MINUS BASE*		NO. OF CLAIMS OVER BASE	X SM/LG ENTITY FEE	\$ AMOUNT	\$ FEE
A	TOTAL CLAIMS FEE	24	- 20* =	4	X \$9 or \$18	\$72	
B	INDEPENDENT CLAIMS FEE**	3	- 3* =	0	X \$39 or \$78	\$0	
C	SUBTOTAL - ADDITIONAL CLAIMS FEE (ADD FINAL COLUMN IN LINES A + B)						72
D	MULTIPLE-DEPENDENT CLAIMS FEE						

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METHOD, SYSTEM, AND PROGRAM FOR  
PRESENTING DATA IN A LIMITED DISPLAY AREA

BACKGROUND OF THE INVENTION

5 1. Field of the Invention

The present invention relates to a method, system, and program for presenting data in a limited display area and, in particular displaying only a portion of the data for a field of data and a graphical element indicating that there is a second portion of the displayed data which may be displayed in response to user input.

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2. Description of the Related Art

In the prior art, many programs and Internet web sites display information using hover text to conserve screen display real estate. One prior art use of hover text in application programs is to display information on a control button or icon. FIG. 1  
15 illustrates a use of hover text 4 to display information on the operation of the "Reload" button. This information is static information provided for particular icons and control buttons on the page. Another prior art use of hover text is to display the entire content in a display area if the display area is not large enough to display all the content. Typically, the display area crops the content to display only that part of the content that fits into the  
20 display area. If a user moves a mouse over the display area, then the display area will display in a hover text box the entire content of the display area. The use of hover text is implemented in standard page description languages such as the Hypertext Markup Language (HTML). HTML provides an alternate text command that allows the display of text over an image. Details of HTML are described in the publication "HTML 4.0  
25 Specification," W3C Recommendation, revised April 24, 1998 (Copyright World Wide Web Consortium 1998), which publication is incorporated herein by reference in its entirety.

Another prior art example of the use of hover text is in the Microsoft Windows NT and 95/98\*\* operating systems. These operating systems display a task bar that displays buttons for each open application that includes the application title. If the title would extend beyond the width of the application button, then the operating system  
5 displays the application title truncated to fit into the button. If the user passes a graphical pointer over the displayed application button, then the entire application title will be displayed in hover text over the application button.

Although the above uses of hover text to display data in fixed length content areas are well known, it would be desirable to utilize the hover text feature to further improve  
10 displaying of data in fixed length content areas.

#### SUMMARY OF THE PREFERRED EMBODIMENTS

Preferred embodiments disclose a system, method, and program for displaying data on a display monitor under control of a computer. A first portion of a field of data  
15 and a graphical element indicating that there is a second portion of the field of data are displayed within a display area of a page. The page is enabled to selectively present the first and second portions of the field of data in response to user input.

In further embodiments, presenting the first and second portions of the field of data comprises displaying the first and second portions in response to the user input. In  
20 such case, selectively presenting the first and second portions comprises displaying the first and second portions as hover text superimposed over the display area displaying the first portion of the field of the data.

In further embodiments, a user request including search criteria is received. A database is then queried on the search criteria to access data records satisfying the search  
25 criteria. Each accessed data record includes the field of data and there is a display area for each record. The at least first portion of the field of data from each accessed data record is displayed in the display area for each record and the page is enabled to

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selectively present the first and second portion of the field for the record in response to user input.

The term "user input" as used herein refers to any method by which the user sends information to the computer, including clicking a mouse button, moving the mouse to  
5 move a displayed pointer to different location on the display screen, moving a pen stylus, depressing a touch screen, etc.

Preferred embodiments provide a mechanism for displaying a portion of a field of data when displaying database records. The display mechanism includes the use of a graphical element indicating further information than displayed in the display area and  
10 encoding the page to enable a user to display the entire portion of the field in response to user input. In this way, preferred embodiments conserve screen real estate by displaying only a portion of the data in a field when displaying records, yet providing a mechanism to display the entire field of data should the user want to view all the data.

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#### BRIEF DESCRIPTION OF THE DRAWINGS

Referring now to the drawings in which like reference numbers represents corresponding parts throughout:

FIG. 1 illustrates a an HTML page displaying hover text in a manner known in the art;

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FIG. 2 illustrates a computing environment in which preferred embodiments in accordance with the present invention are implemented;

FIG. 3 illustrates an HTML page displaying database records in accordance with preferred embodiments of the present invention; and

FIG. 4 illustrates logic implemented in the web server to generate HTML pages of  
25 database records in accordance with preferred embodiments of the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

In the following description, reference is made to the accompanying drawings which form a part hereof, and which illustrate several embodiments of the present invention. It is understood that other embodiments may be utilized and structural and operational changes may be made without departing from the scope of the present invention.

Computing Environment

FIG. 2 illustrates a hardware and software environment in which preferred embodiments are implemented. A computing environment 2 comprises a server 4, client computers 8a, b, c, and a network 10 providing communication therebetween. The server 4 may be any server device known in the art capable of servicing network requests, e.g., IBM NETFINITY, AS/400, and RS/6000; and POWEREDGE from Dell Computer Corporation.\*\* The clients 8a, b, c may be comprised of any computing device known in the art that is capable of accessing and retrieving information from a network. In preferred embodiments, the server 4 includes a web server program 12 that utilizes the Hypertext Transfer Protocol (HTTP) program 12 to service HTTP requests from the clients 8a, b, c. The web server 12 may also include software to handle document requests in data transfer protocols other than HTTP, such FTP, Gopher, WAIS, NNTP, SMTP, etc.

A database 14 includes records of content to provide to the web server 12 to return to users in response to requests for information from a user at a client 8a, b, c. The database may be comprised of any database program known in the art, e.g., DB2, Oracle Corporation's ORACLE 8, Microsoft SQL Server, etc.\*\* The database 14 may include information in any text or media format known in the art, including text, images, sound files, movies, Java applets, etc. The web server 12 would build an HTML page to include information from the data base. The pages could include information in any format, including text and/or embedded audio, video images, still images, animation,

three-dimensional images, etc. In preferred embodiments, the web server 12 includes the program components to retrieve data from the database 14, such as web gateway server or CGI application. This would allow the web server 12 to convert a user request for information into a query of the database 14 to retrieve database records and include the ability to encode a page in a format such as HTML, XML, etc., with the information in the database records to return to the client 8a, b or c. The web server 12 may be implemented in a web server program, such as the IBM WebSphere Application Server, which processes requests from user systems, generates queries and generates output to respond to a client request. The web server 12 may be implemented in numerous program components, such as JAVA\*\* servlets, beans, etc., to generate a response to a client request.

The clients 8a, b, c include one or more browser programs 16 that are capable of submitting document requests to the server 4. In preferred embodiments, the browser program 14 is a Hypertext Markup-Language (HTML) browsers, e.g., NETSCAPE Communicator, the MICROSOFT Internet Explorer, Spy Mosaic, NCSA Mosaic, Lynx, Opera, GNUscape Navigator, etc.\*\* , that includes HTTP software to function as an HTTP client to transfer document requests to the server 4. The HTTP server protocol is described in "Hypertext Transfer Protocol -- HTTP/1.1," Network Working Group, Request for Comments No. 2068 (January, 1997), which publication is incorporated herein by reference in its entirety. The browser program 14 may also include plug-ins or additional program features to process files in other media formats, such as sound files, movie files, JAVA™ applets\*\*, etc.

The network 10 may be a TCP/IP network, such as the Internet and World Wide Web, or any other network system known in the art, e.g., LAN, Ethernet, WAN, System Area Network (SAN), Token Ring, LocalTalk, etc. Alternatively, there may be separate and different networks between the server 4 and clients 8a, b, c.

FIG. 3 illustrates an example of how preferred embodiments display information on a page. In this example, the database 14 includes one or more tables of information on

music videos, including fields for the title of the video, authors, and a description of the type of video, e.g., jazz instrument, biography, children, etc. With respect to FIG. 4, a web page 100 includes a search field 102 into which the user enters a search value and other search parameters through a drop down list 104. Upon the user selecting the "GO" button 106, an HTTP request to the server 4 would be transmitted over the network 10. In response, the web server 12 would generate an HTML page 100 including the records of the results displayed in fixed size content boxes 108. The content boxes may remain fixed relative to the size of the window. Thus, as the window is resized, the content boxes may be similarly resized. The web server 12 generates the HTML code to display in each content box the video name, the authors, i.e., artists, followed by a category description of the video. If there is more than one artist, then the web server 12 generates HTML code to display the first artist, followed by "et al." and a graphical element "i" 110 indicating that there are further authors. If the user passes a mouse or other input device over the displayed "i", then the web page 100 would display in a hover text box, e.g., box 112, the names of all the authors or artists. In further embodiments, if the complete author information cannot fit into the hover text box, then such information would be truncated in the hover text box. Notwithstanding, the hover text box would display substantially more information than displayed in the content boxes 108.

Preferred embodiments provide a mechanism for using the alternate text or hover text feature of HTML to allow for only the display of the first author name and the full list of authors in a hover text box if the user passes the input device over the "i" graphical element. This conserves real estate by only displaying the first author of the list of authors in the fixed display area for each record. The user can then cause the full list of authors to be displayed.

FIG. 4 illustrates logic implemented in the web server 12 program or components thereof to generate an output page, e.g., HTML, XML, etc., in response to a client HTTP request for data from the database 14. Control begins at block 200 with the web server 12 receiving a user HTTP request and accompanying HTML page including search

criteria. The web server 12 generates (at block 202) a query using the search criteria included in the HTML page and applies the query against the database 14. Upon receiving the records matching the query (at block 204), the web server 12 encodes (at block 206) in HTML the upper part of the HTML page 100 to include the search criteria provided by the user, as shown in FIG. 4. For each received record *i*, the web server 12 begins a loop at block 208 to generate information from the record into each display box 108. First the web server 12 defines (at block 210) in HTML code a cell in the template to include record *i* data. The web server 12 may use the HTML "TD" element to define a table cell to include the data from record *i*. The web server 12 then encodes (at block 212) the first field in the record *i* into the HTML template. In the example of FIG. 4, the first data in each record box 108 is the name of the video.

The web server 12 then determines (at block 214) whether the second field includes a separator indicating multiple values for that field. If only one value is included for the field, e.g., such as one author, then the web server 12 encodes (at block 216) the single value into the template 100 following the first field. The web server 12 then encodes (at block 218) the data in the third field into the template following the second field. In FIG. 4, the third field is categorical information on the video. Control then proceeds (at block 220) back to block 208 to process the next returned record. If the second field included a separator and more than one value, e.g., multiple authors, then the web server 12 encodes (at block 222) the first value before the first separator into the display box followed by "et al". The web server 12 then encodes (at block 224) an image element to embed an information symbol into the cell, shown as "i" 110 in display box 108 FIG. 4. The information symbol "i" denotes that there is further information on the authors not displayed in the box 108. The web server 12 then encodes (at block 226) a hover text element following the information symbol "i" to include the capability to display the full list of authors in hover text above the box, as shown as 112 in FIG. 4, when the user passes an input device, such as a mouse pointer, over the hover text element following the information symbol "i".



In preferred embodiments, the hover text capability would be encoded using the HTML alternate text "alt" attribute definition. After adding the hover text capability to the display box 108, the web server 12 proceeds to block 218 to encode the data from the third field into the template 100. After inputting data from all the returned records in the HTML page 100, the web server 12 transmits the generated page to the client 8a, b, or c over the network 10.

Preferred embodiments use the hover text to display an entire field of data when only a portion thereof is displayed in the display area for the data to conserve screen real estate. Thus, for every information symbol "i" included in a display box, different content, e.g., lists of authors, is presented in hover text to allow the user to selectively view all the data in the field. In this way, the information symbol "i" is a placeholder for information to indicate that further information is available although not currently displayed to conserve screen real estate. Thus, preferred embodiments are particularly useful for displaying lengthy fields in database records when a fixed size display area is used to display each record.

#### Alternative Embodiments and Conclusions

This concludes the description of the preferred embodiments of the invention. The following describes some alternative embodiments for accomplishing the present invention. The preferred embodiments may be implemented as a method, apparatus or article of manufacture using standard programming and/or engineering techniques to produce software, firmware, hardware, or any combination thereof. The term "article of manufacture" (or alternatively, "computer program product") as used herein is intended to encompass one or more computer programs and/or data files accessible from one or more computer-readable devices, carriers, or media, such as magnetic storage media, "floppy disk," CD-ROM, optical disks, holographic units, volatile or non-volatile electronic memory, a file server providing access to the programs via a network transmission line, wireless transmission media, signals propagating through space, etc. Of course, those

skilled in the art will recognize many modifications may be made to this configuration without departing from the scope of the present invention.

Preferred embodiments were described with respect to the HTTP protocol for transmitting documents between computers within a network. However, those skilled in the art will appreciate that the preferred embodiments may apply to any communication protocol for allowing a client to request and access files in a network environment. Preferred embodiments were described with respect to using the alternate text attribute of HTML to display the entire content of a field when multiple values are present in the field. In alternative embodiments, the hover text may be used to display the content of a particularly lengthy field even if the field only includes one value. Preferred embodiments were described with respect to using the hover text to display information in database records. However, the preferred use of a placeholder (e.g., information symbol "i") and then the alternative hover text option may be used to display data from any location, not just database records.

Preferred embodiments were described with respect to presenting information in pages conforming to the HTML file format. However, alternative file formats for building implementing the web pages and hover text may be used, such as Dynamic Hypertext Mark-Up Language (DHTML), the Extensible Markup Language (XML), Cascading Sytle Sheets, any other Standard Generalized Markup Language (SGML), or any other language known in the art for creating interchangeable, structured documents. Further, any version of HTML may be used, including version 2.0, 3.2, 4.0, etc. In yet further embodiments, the requested file may be in any other file format, i.e., other than an SGML type format, capable of being displayed or otherwise executed by the requesting client.

Preferred embodiments were used to display text using an expanded format such as hover text if the data to display would not fit into the display area. In alternative embodiments, the additional information from the data to display may be presented through media other than displayed hover text. For instance, the additional values in the

field may be presented through a computer voice, displayed in an animation program, etc. Preferred embodiments were described with respect to a network environment in which pages are provided to a client from a server over a network, such as the Internet. However, in alternative embodiments the interlinking pages may be maintained within  
5 and used by a single computing device, such as a computer with a hard disk drive.

In summary, the present invention provides a system, method, and program for displaying data on a display monitor under control of a computer. A first portion of a field of data and a graphical element indicating that there is a second portion of the field of data are displayed within a display area of a page. The page is enabled to selectively  
10 present the first and second portions of the field of data in response to user input. The foregoing description of the preferred embodiments of the invention has been presented for the purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise form disclosed. Many modifications and variations are possible in light of the above teaching. It is intended that the scope of  
15 the invention be limited not by this detailed description, but rather by the claims appended hereto. The above specification, examples and data provide a complete description of the manufacture and use of the composition of the invention. Since many embodiments of the invention can be made without departing from the spirit and scope of the invention, the invention resides in the claims hereinafter appended.

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25 \*\*NETSCAPE is a registered trademark of the Netscape Communications Corporation; WINDOWS, WINDOWS NT, and MICROSOFT are registered trademarks and Microsoft SQL Server is a trademark of Microsoft Corporation; DB2, OS/2, NETFINITY, AS/400, and RS/6000 are registered trademarks of International Business Machines Corporation; JAVA is a trademark of Sun Microsystems, Inc; POWEREDGE is a registered trademark of the Dell Computer Corporation; of Microsoft Corporation; DB2, AIX, OS/390, OS/400, and OS/2 are registered trademarks of IBM; and Oracle8 is a trademark of Oracle Corporation.

WHAT IS CLAIMED IS:

- 1           1.       A method for displaying data on a display monitor under control of a  
2 computer, comprising:  
3           displaying in a page a first portion of a field of data and a graphical element  
4 indicating that there is a second portion of the field of data within a display area of the  
5 page; and  
6           enabling the page to selectively present the first and second portions of the field of  
7 data in response to user input.
  
- 1           2.       The method of claim 1, wherein the presenting the first and second  
2 portions of the field of data comprises displaying the first and second portions in response  
3 to the user input.
  
- 1           3.       The method of claim 2, wherein selectively presenting the first and second  
2 portions comprises displaying the first and second portions as hover text superimposed  
3 over the display area displaying the first portion of the field of the data.
  
- 1           4.       The method of claim 1, wherein the page is an HTML page and wherein  
2 an HTML alternative text attribute element is used to enable the page to selectively  
3 present the first and second portions of the field of data in response to user input.
  
- 1           5.       The method of claim 1, further comprising:  
2 receiving a user request including search criteria; and  
3 querying a database on the search criteria to access data records satisfying the  
4 search criteria, wherein each accessed data record includes the field of data, wherein there  
5 is a display area for each record, further comprising displaying in the display area for each  
6 record the at least first portion of the field of data from each accessed data record,

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1 wherein the page is enabled to selectively present the first and second portion of the field  
2 for the record in response to user input.

1 6. The method of claim 5, wherein displaying the first portion in the display  
2 area comprises displaying a first value in the data field, and wherein presenting the first  
3 and second portions in response to user input comprise displaying all the values form the  
4 data field.

1 7. The method of claim 6, further comprising displaying at least one  
2 additional field of data in each display area for each accessed record.

1 8. The method of claim 1, wherein the first and second portions are presented  
2 in response to user input indicating movement of a graphical pointer over the displayed  
3 graphical element.

1 9. A system for displaying data, comprising:  
2 a computer;  
3 a display monitor under control of the computer,  
4 means for displaying in a page on the display monitor a first portion of a field of  
5 data and a graphical element indicating that there is a second portion of the field of data  
6 within a display area of the page; and  
7 means for enabling the page to selectively display on the monitor the first and  
8 second portions of the field of data in response to user input.

1 10. The system of claim 9, wherein the means for displaying the first and  
2 second portions of the field of data comprises displaying the first and second portions in  
3 response to the user input.

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1           11.     The system of claim 10, wherein the means for selectively displaying the  
2     first and second portions comprises displaying the first and second portions as hover text  
3     superimposed over the display area displaying the first portion of the field of the data.

1           12.     The system of claim 9, wherein the page is an HTML page and wherein  
2     an HTML alternative text attribute element is used to enable the page to selectively  
3     present the first and second portions of the field of data in response to user input.

1           13.     The system of claim 9, further comprising:  
2                 means for receiving a user request including search criteria; and  
3                 means for querying a database on the search criteria to access data records  
4     satisfying the search criteria, wherein each accessed data record includes the field of data,  
5     wherein there is a display area for each record;  
6                 means for displaying in the display area for each record the at least first portion of  
7     the field of data from each accessed data record, wherein the page is enabled to  
8     selectively present the first and second portion of the field for the record in response to  
9     user input.

1           14.     The system of claim 13, wherein the means for displaying the first portion  
2     in the display area comprises displaying a first value in the data field, and wherein  
3     presenting the first and second portions in response to user input comprise displaying all  
4     the values form the data field.

1           15.     The system of claim 14, further comprising displaying at least one  
2     additional field of data in each display area for each accessed record.

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1           16.     The system of claim 9, wherein the first and second portions are displayed  
2     in response to user input indicating movement of a graphical pointer over the displayed  
3     graphical element.

1           17.     An article of manufacture for displaying data on a display monitor under  
2     control of a computer, the article of manufacture comprising a computer usable media  
3     including at least one computer program embedded therein that is capable of causing the  
4     computer to perform:

5                 displaying in a page a first portion of a field of data and a graphical element  
6     indicating that there is a second portion of the field of data within a display area of the  
7     page; and

8                 enabling the page to selectively present the first and second portions of the field of  
9     data in response to user input.

1           18.     The article of manufacture of claim 17, wherein the presenting the first and  
2     second portions of the field of data comprises displaying the first and second portions in  
3     response to the user input.

1           19.     The article of manufacture of claim 18, wherein selectively presenting the  
2     first and second portions comprises displaying the first and second portions as hover text  
3     superimposed over the display area displaying the first portion of the field of the data.

1           20.     The article of manufacture of claim 17, wherein the page is an HTML page  
2     and wherein an HTML alternative text attribute element is used to enable the page to  
3     selectively present the first and second portions of the field of data in response to user  
4     input.

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1           21.    The article of manufacture of claim 17, further comprising:  
2           receiving a user request including search criteria; and  
3           querying a database on the search criteria to access data records satisfying the  
4   search criteria, wherein each accessed data record includes the field of data, wherein there  
5   is a display area for each record, further comprising displaying in the display area for each  
6   record the at least first portion of the field of data from each accessed data record,  
7   wherein the page is enabled to selectively present the first and second portion of the field  
8   for the record in response to user input.

1           22.    The article of manufacture of claim 21, wherein displaying the first portion  
2   in the display area comprises displaying a first value in the data field, and wherein  
3   presenting the first and second portions in response to user input comprise displaying all  
4   the values form the data field.

1           23.    The article of manufacture of claim 22, further comprising displaying at  
2   least one additional field of data in each display area for each accessed record.

1           24.    The article of manufacture of claim 17, wherein the first and second  
2   portions are presented in response to user input indicating movement of a graphical  
3   pointer over the displayed graphical element.

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METHOD, SYSTEM, AND PROGRAM FOR  
PRESENTING DATA IN A LIMITED DISPLAY AREA

ABSTRACT

Disclosed is a system, method, and program for displaying data on a display monitor under control of a computer. A first portion of a field of data and a graphical element indicating that there is a second portion of the field of data are displayed within a display area of a page, such as an HTML page. The page is enabled to selectively present the first and second portions of the field of data in response to user input.

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FIG. 1

*Prior Art*

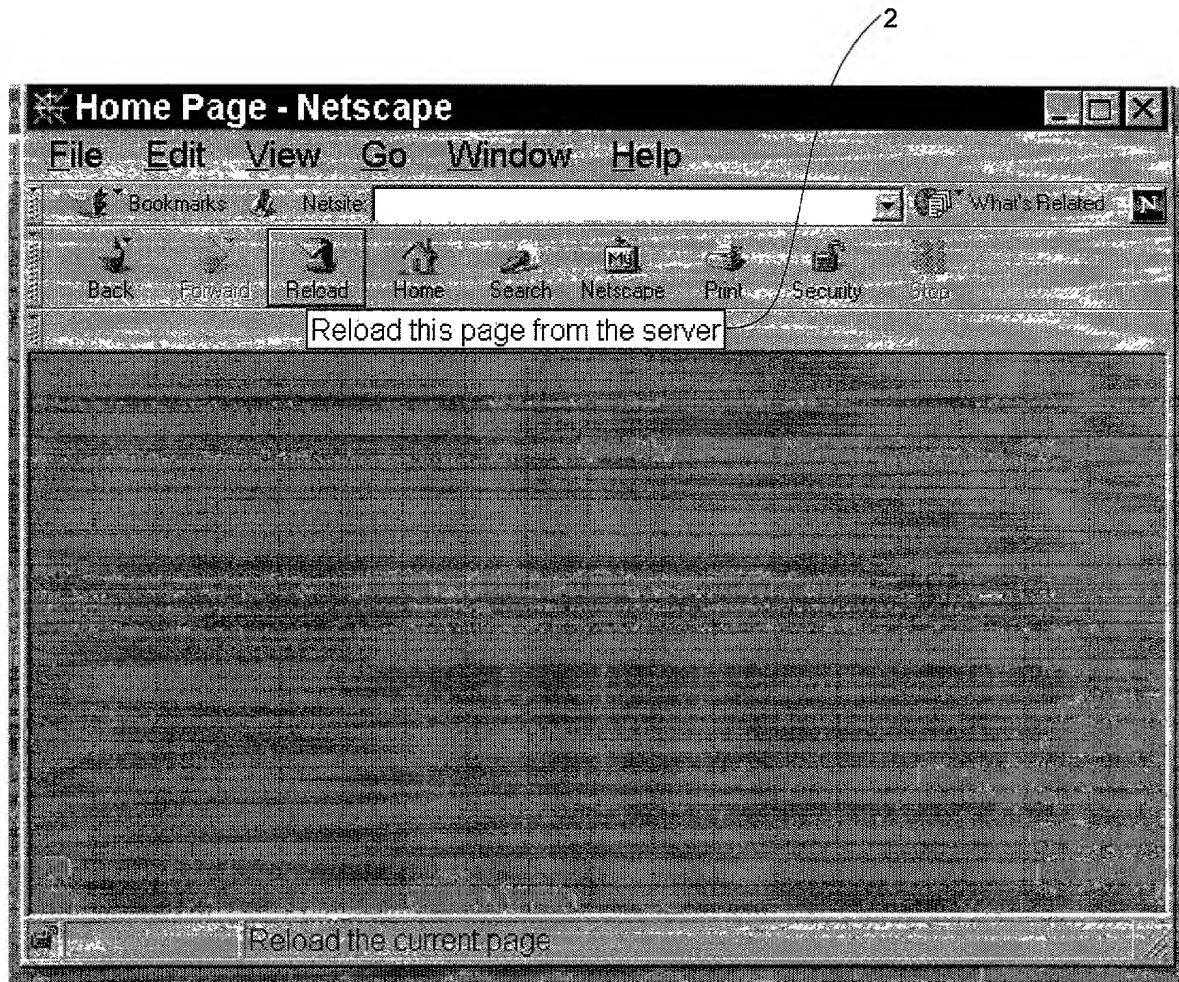


FIG. 2

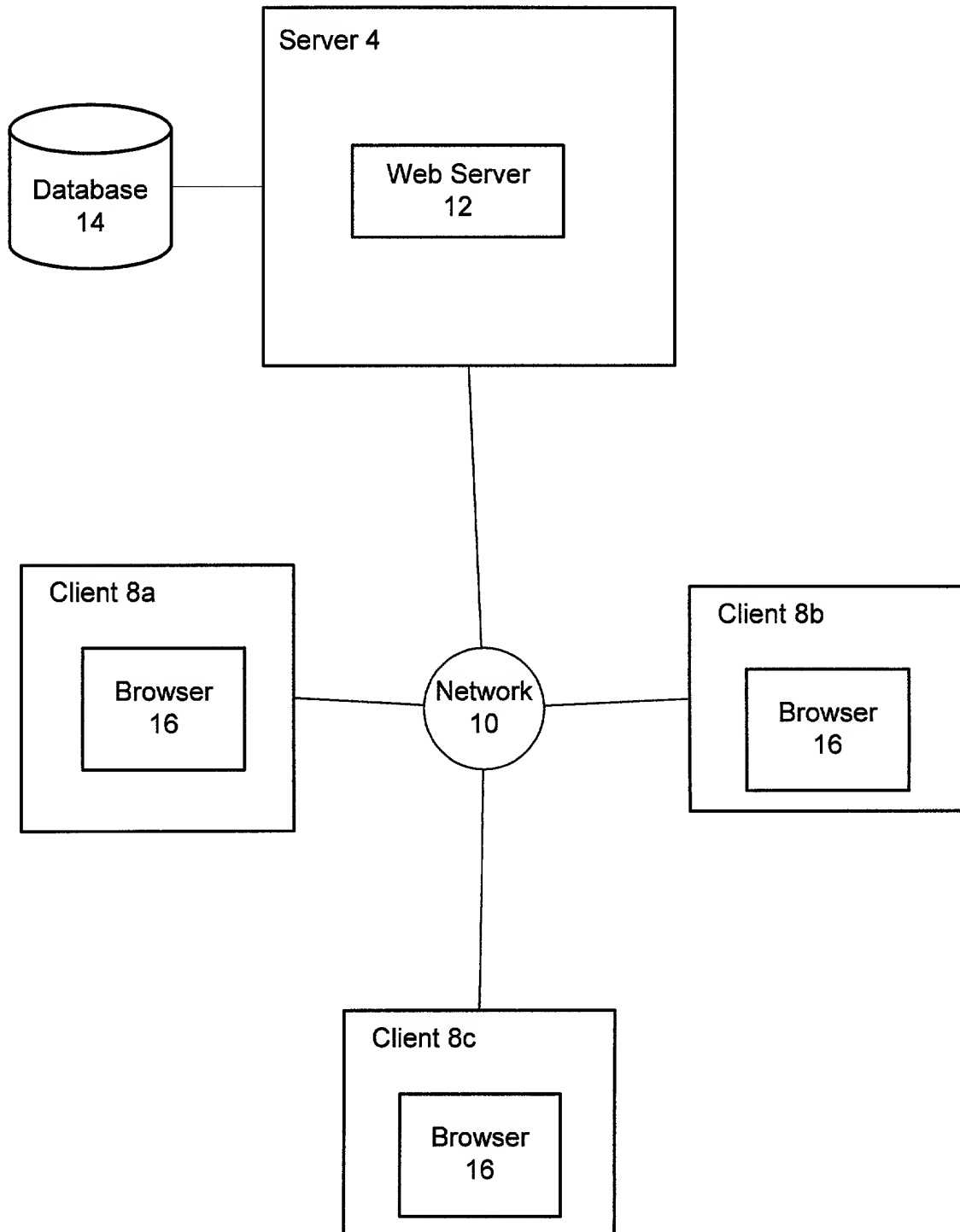


FIG. 3

100

104

102

106

110

108

112

Text Extender Internet Additions - Netscape

File Edit View Go Communicator Help

Bookmarks Location: http://sp2nat1/tcp-bin/db2www/gtr/test.d2w/main What's Related

**NetData** Search for: blue **DB2 Text Extender**

Index: field video Data from: DB2

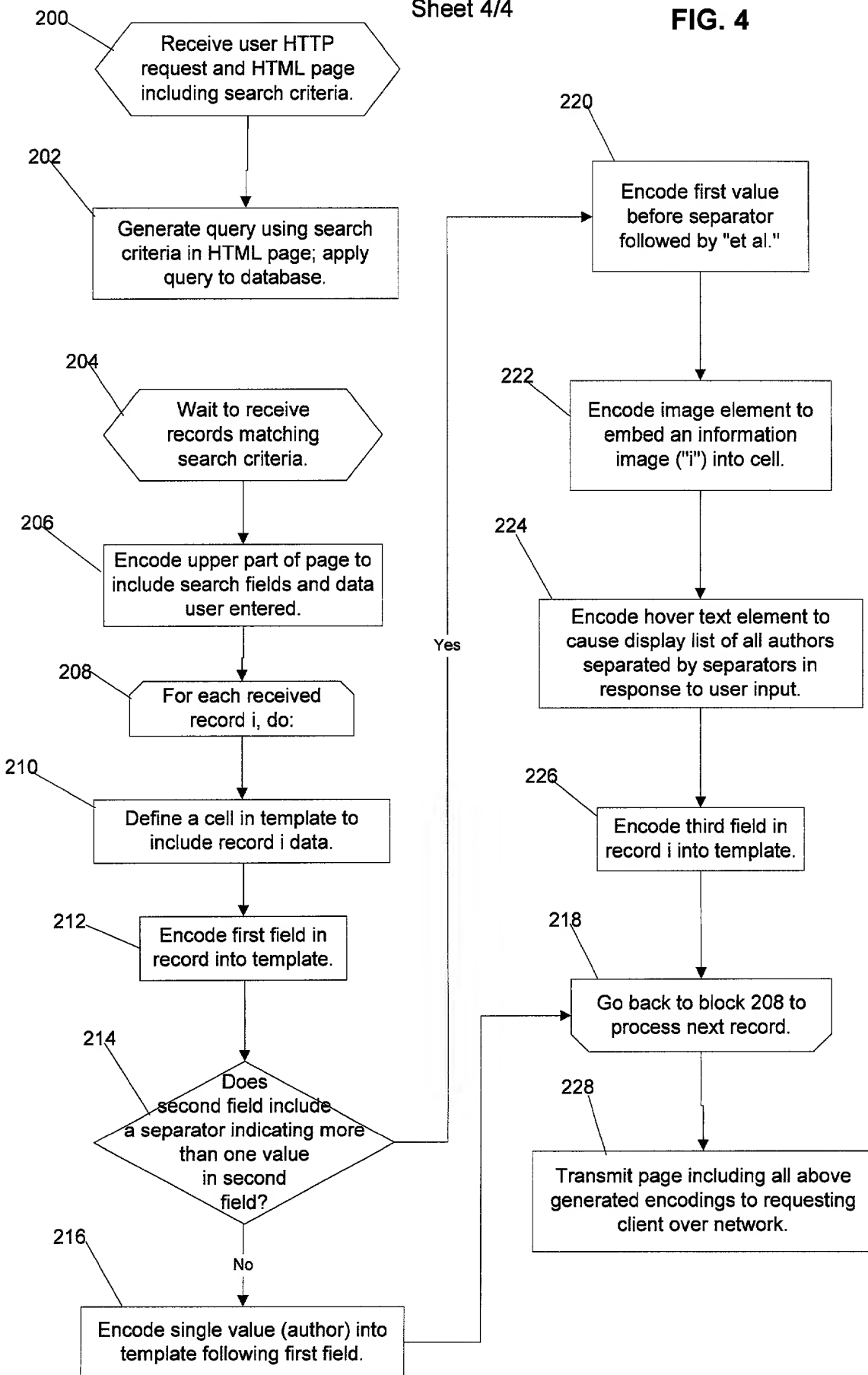
☒ Query Syntax ☒ Indexes/Fields

Searched for: blue [index: fldvid] Maximum hits (overall): 32000 (64000 per word) Data from: DB2  
Call primer... (18 milliseconds.)  
Stored procedure called at: 17:57:06.464 Stored procedure with GTR call:

Row	Title by Author (Subject) [wordcount(s): 326]
1	<i>Boogie In Blue [VIDEO]</i> by Feller, Flavyn, et al. (Jazz Instrument, Piano, Biography, Clips And Highlights, Jazz, Musical & Performing Arts, Pop Music, Rhythm And Blues)
2	<i>British Big Beat</i> by Hollies, The, et al. (Oldies, '60s, British, Music Video, Musical & Performing Arts, Pop Music, Rock And Roll, Vintage)
3	<i>Adventures of Rocky and Bullwinkle, The</i> by Hollies, The/Lulu/Swinging Blue Jeans, The/Various Artists (Animated, Animation, Childrens, Good Vs. Evil, Series)
4	<i>Adventures of Sherlock Holmes, The - The Blue Carbuncle</i> by Burke, David, et al. (Action/Adventure, Detectives, Jewels, Mystery, Suspense)
5	<i>Adventures of the Texas Kid</i> by Tansey, Robert Emmett, et al. (Law/Lawyers, Thieves, Western, Westerns)
6	<i>Almost Blue</i> by Waxman, Keoni, et al. (Deception, Drama, Dramas, Mystery)
7	<i>Arctic Blue</i> by Masterson, Peter, et al. (Action, Action/Adventure, Adventure, Prison/Prisoners, Stranded/ Castaway, Suspense, Wilderness)
8	<i>Arctic Blue</i> by Masterson, Peter, et al. (Action, Action/Adventure, Adventure, Prison/Prisoners, Stranded/ Castaway, Suspense, Wilderness)
9	<i>Area 88 Act I: The Blue Skies of Betrayal</i> by no author listed (Adventure, Animation, Animation/Japanese, Education/ General Interest, High Flying, War)
10	<i>Area 88 Act I: The Blue Skies of Betrayal</i> by no author listed (Adventure, Animation, Animation/Japanese, Education/ General Interest, High Flying, War)

Document Done

FIG. 4



As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**METHOD, SYSTEM, AND PROGRAM FOR PRESENTING DATA IN A LIMITED DISPLAY AREA**

the specification of which (check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_

as Application Serial No. \_\_\_\_\_

and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

None Yes No  
(Number) (Country) (Day/Month/Year Filed)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56, which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

None  
(Application Serial No.) (Filing Date) (Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number) Romualdas Strimaitis, Reg. No. 35,697; Prentiss W. Johnson, Reg. No. 33,123; Ingrid M. Foerster, Reg. No. 36,511; Timothy M. Farrell, Reg., No. 37,321; Christopher A. Hughes, Reg. No. 26,914; John E. Hoel, Reg. No. 26,279; Edward A. Pennington, Reg. No. 32,588; Joseph C. Redmond, Jr., Reg. No. 18,753; David W. Victor, Reg. No. 39,867; William K. Konrad, Reg. No. 28,868; Alan S. Raynes, Reg. No. 39,809.

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